## WHAT IS CLAIMED IS:

- 1. A cleaning method of an annealed silicon wafer comprising the steps of oxidizing a silicon wafer with ozonized water; and cleaning the oxidized silicon wafer with hydrofluoric acid, thus obtaining a silicon wafer in which micro roughness thereof under spatial frequency of  $20/\mu m$  is 0.3 to 1.5 nm³ in terms of power spectrum density.
- 2. The cleaning method according to claim 1, further comprising the steps of oxidizing with ozonized water just after the oxidation step and the hydrofluoric acid cleaning step.
- 3. The cleaning method according to claim 1, wherein the density of the ozonized water is 10 to 60 ppm.
- 4. The cleaning method according to claim 1, wherein the density of the hydrofluoric acid is 0.5 to 2%.